INDEX TO VOLUME 30

AUTHOR INDEX

Ageev, M. D. (1) 13-20 Anderson, J. M. (4) 54-56 Andersen, W. F. (3) 43-44 Artukov, A. A. (1) 21-28 Baklanov, P. Y. (1) 55-64 Beaver, C. (2) 26-32 Bergeron, J. C. (4) 14-19 Busch, W. S. (2) 58-59 Clark, A. M. (3) 31-34 Clower, P. (2) 8-16 Cote, S. (4) 4-13 Deineko, A. O. (1) 51-54 Dokken, Q. R. (2) 26-32, (2) 60-61 Edwardson, K. A. (4) 20-27 Ehler, C. N. (3) 13-20 Elyakov, G. B. (1) 21-28, (1) 3-4 Elyakova, L. A. (1) 29-34, (1) 35-39 Eremeev, A. P. (1) 51-54 Ganzei, S. S. (1) 51-54 Gasanov, D. R. (1) 51-54 Ghizzoni, J. (3) 31-34 Gittings, S. (2) 3-7 Goudey, C. 21-26 (3) 21-26 Grigo, S. (4) 36-45 Halvkard, J. (3) 3-12 Hick, P. (4) 36-45 Hitchcock, G. L. (2) 50-57 Horton, E. H. (3) 3-12 Hosja, W. (4) 36-45 Houlihan, T. M. (3) 45-49 Howlett, E. (2) 17-25 Ioup, E. G. (4) 14-19 Ioup, W. J. (4) 14-19 Ivanenko, V. V. (1) 40-45 Jernakoff, P. (4) 36-45 Jonathan, M. (4) 54-56 Keane, J. F. (3) 34-36 Khristoforova, N. K. (1) 51-54 Kolar, R. J. (3) 31-34 Kondratyev, K. Y. (4) 46-53 Korotky, A. M. (1) 51-54 Kozlovskaya, E. P. (1) 29-34 Kulakov, A. P. (1) 51-54 Kuznetsova, T.A. (1) 21-28 Ladner, R. D. (2) 33-38 Leshkevich, G. A. (4) 28-35 MacPhee, S. B. (3) 37 Malahoff, A. (2) 62-64 Mamaenko, M. V. (1) 40-45 Metelev, A. Y. (1) 40-45 Mikhailov, V. V. (1) 21-28 Min, W. (1) 40-45 Monk, J. (4) 54-56 Mooney, J. B (1) 71-72 Morris, D. S. (2) 39-43 Muhr, G. C. (4) 28-35 Nazarenko, D. (4) 57-61 Necrasov, V. V. (1) 51-54 Nikonova, R. I. (1) 51-54 Ong, C. (4) 36-45

Ostrom, C. L. (2) 3-7 Permyakov, A. A. (1) 51-54 Philpot, W. (4) 3 Poole, P. K. (2) 8-16 Pope, E. D. (1) 65-70 Pozdnyakov, D. V. (4) 46-53 Preobrazhensky, B. V. (1) 51-54 Rakita, K. A. (1) 40-45 Rasskazov, V. A. (1) 29-34 Razhigaeva, N. G. (1) 51-54 Riley, R. E. (2) 33-38 Sagalevitch, A. M. (1) 7-12 Schubel, J. R. (3) 34-36 Schwab, D. J. (4) 28-35 Seymour, R. (1) 71-72 Sfreir-Younis, A. (3) 27-30 Sherin, A. G. (4) 20-27 Shulkin, V. M. (1) 51-54 Solovíeva, T. F. (1) 35-39 Sova, V. V. (1) 21-28 Spaulding, M. L. (2) 17-25 Stockdale, G. (3) 40-42 Stonik, V. A. (1) 21-28 Sun, X (4) 54-56 Surin, N. M. (1) 51-54 Tack, R. E. (4) 57-61 Tatnall, A. R. L. (4) 4-13 Timko, R. E. (2) 33-38 Vadus, J. R. (1) 65-70 Watson, K. L. (3) 38-39 Woody, C. E. (2) 33-38 Wunsch, C. (2) 65-68 Yermak, I. M. (1) 35-39 Yi, N. (4) 14-19 Zuev, V. E. (1) 46-50, (1) 5-6 Zvyagintseva, T. N. (1) 35-39

SUBJECT INDEX

ADVANCED MARINE TECHNOLOGY

Oceanographic Instrumentation

Deep-Water Scintillation Counter to Estimate Alpha-Active Substance Content in Natural Water, A.O. Deineko, A.P. Eremeev, D.R. Gasanov, V.V. Necrasov, A.A. Permyakov, and N.M. Surin (1) 51-54

Remote Sensing

Airborne Spectral Filtered Images Used in the Water Environment, James M. Anderson, Jonathan Monk, and Xiuhong Sun (4) 54-56

A Coastal Information System for the Atlantic Provinces of Canada, Andrew G. Sherin and Kimberley A. Edwardson (4) 20-27 A GPS-Tracked Surface Drifter with Cellular Telemetry Capabilities, Gary L. Hitchcock, Donald B. Olson, Steven L. Cavendish and Eric C. Kanitz (2) 44-49

Commentary: Canada's Commercial Remote Sensing Model: Paying Dividends in Marine Applications, Robert E. Tack and Dennis Nazarenko (4) 57-61

Commentary: Remote Sensing for Marine and Coastal Environments, William Philpot (4) 3

Estimation of Ocean Surface Currents from Satellite Imagery Using a Hopfield Neural Network, Stephane Cote and Adrian R.L. Tatnall (4) 4-13

Laser Sounding of the Ocean and the Atmosphere and their Interaction, Vladimir E. Zuev (1) 46-50

Lidar Fluorescence Technique Application for Studying Hydrodynamic Processes, D.V. Pozdnyakov and K.Ya. Kondratyev (4) 46-53

Low Pass Filtering of AEM Fields by MIM Impulse Functions, Clyde J. Bergeron, Jr., Ningke Yi, Juliette W. Ioup, George E. Ioup (4) 14-19

Mapping Algal Blooms Using Airborne Digital Multi-Spectral Video and the Importance of Bloom Dynamics in the Collection of In-Water Data, Peter Jernakoff, P. Hick, C. Ong. W. Hosja, and S. Grigo (4) 36-45

Satellite Environmental Monitoring of the Great Lakes: Great Lakes Coast-Watch Program Update, G.A. Leshkevich, D.J. Schwab, and G.C. Muhr (4) 28-35

Submersibles—Manned and Unmanned

A Systems Approach to Autonomous Underwater Vehicle (AUV) Propulsion Design, Patrick K. Poole and Penn Clower (2) 8-16

MIR Submersibles in Science and Technology, Anatoly M. Sagalevitch (1) 7-13

Modular Autonomous Unmanned Vehicles of the IMTP, M.D. Ageev (1) 13-20

MARINE POLICY & EDUCATION

Coastal Zone Management

South Florida: A Laboratory for Ecosystem Restoration and Integrated Coastal Management, Charles N. Ehler (3) 13-20

Technical Note: Aquaculture in the U.S. EEZ: Industry in Need of Help, Clifford A. Goudey (3) 21-26

Marine Education

Operational and Procedural Guidelines for Use of Offshore Oil and Gas

Platforms—Flower Gardens Ocean Research Project, Carl Beaver and Quenton R. Dokken (2) 26-32

Marine Law & Policy

Commentary: Economic and Health Benefits of Collaborative U.S.-Mexico Bioremediation of Marine Ecosystem Projects, Kathy L. Watson (3) 38-39

Commentary: National Oceanic and Atmospheric Administration's Stormy Financial Future, Stephen B. Mac-Phee (3) 37

Commentary: Present and Future Success of Deep Ocean Science and Technology in Japan, Alexander Malahoff (2) 62-64

Commentary: Science and Industry—A Common Need for "Good Scientific Data," Quenton R. Dokken (2) 60-61

Commentary: United States/Russia Cooperation: Ocean Technology '96, Edmond D. Pope and Joseph R. Vadus (1) 65-70

Commentary: Use of Offshore Production Platforms for Atmospheric, Oceanographic, and Environmental Research, William S. Busch (2) 58-59

Editorial: State of Scientific Research at the Far East Branch of the Russian Academy of Sciences, George B. Elyakov (1) 3-4

Special Report: A Brief Report on the Third Annual World Bank Conference on Environmentally Sustainable Development, Alfredo Sfeir-Younis (3) 27-30

Marine Recreation

Commentary: Creating Aquariums for the 21st Century, Jerry R. Schubel and John F. Keane (3) 34-36

Technology Exchange

Commentary: Federal Technology Transfer—Oceans of Opportunity for Industry, Grant Stockdale (3) 40-42

Commentary: High-Risk, High-Payoff R&D: The Financial Aspects of Industry, Academia, and Government Cooperation, William F. Andersen (3) 43-44

Commentary: Leveraging Private Sector Financing to Launch a 21st Century Ocean Communications System—A Success Story, Andrew M. Clark, Jeffrey Ghizzoni, and Ray J. Kolar (3) 31-33

Commentary: New Factory America, Thomas M. Houlihan (3) 45-49

MARINE RESOURCES

Marine Living Resources

Flower Garden Banks National Marine Sanctuary: Platforms, Partnerships, and Resource Protection, Christopher L. Ostrom and Stephen R. Gittings (2) 3-7

From Chemistry of Marine Natural Products to Marine Technologies: Research at the Pacific Institute of Bioorganic Chemistry, George B. Elyakov, Valetin A. Stonik, Tatyana A. Kuznetsova, and Valery V. Mikhailov (1) 21-28

Hydrolytic Enzymes of Marine Invertebrates and Prospects for their Utilizatio Valery A. Rasskazov, Ludmila A. Elyakova, Emiliya P. Kozlovskaya, Victorya V. Sova, and Alexander A. Artukov (1) 29-34

Polysaccharides from the Russia Pacific Coast Algae and their Enzymatic Transformation, Tamara F. Solov'eva, Ljudmila A. Elyakova, Tatiana N. Zvyagintseva, and Irlna M. Yermak (1) 35-39

Seal Predation at Salmon Farms in Marine, an Overview of the Problem and Potential Solutions, Daniel S. Morris (2) 39-43

Mineral Resources

Multielement Nuclear-Physical Analysis of Ocean Nodules, V.V. Ivanenko, A. Yu. Metelev, K.A. Rakita, M.V. Mamaenko, and Wang Min (1) 40-45

Physical Oceanography/ Meteorology

Application of SARMAP to Estimate Probable Search Area for Objects Lost at Sea, Malcolm L. Spaulding and Eoin Howlett (2) 17-25

Commentary: Doherty Lecture: The Ocean and Climate—Separating Myth from Fact, Carl Wunsch (2) 65-68

Commentary: Survey of Russian Maritime Technologies: WTEC Panels, J. Brad Mooney and Richard Seymour (1) 71-72

Editorial: Marine Technologies at the Russian Academy of Sciences, Vladimir E. Zuev (1) 5-7

Near-Real-Time Ocean Color Measurements from Fixed Platforms—A Design Robert E. Timko, Catherine E. Woody, Randy D. Ladner and Rodney E. Riley (2) 33-38

Technical Note: Marine Geographical Studies of the Pacific Institute of Geography of the Far East Branch of Russian Academy of Sciences, P. Ya. Baklanov, S.S. Ganzei, A.M. Korotky, A.P. Kulakov, N.K. Khristoforova, R.I. Nikonova, B.V. Preobrazhensky, N.G. Razhigaeva, and V.M. Shulkin (1) 55-64

OCEAN AND COASTAL ENGINEERING

Offshore Structures

Spar Platforms for Deep Water Oil and Gas Fields, John Halkyard and Edward H. Horton (3) 3-12

BOOK REVIEWS

Aquaculture in the United States: A Historical Survey, Robert R. Stickney. John Wiley and Sons: New York, New York; reviewed by William K. Macy, Ph.D. (4) 63-64

Basic Ship Theory, Volume II, K. J. Rawson and E. C. Tupper. Halsted Press: New York, NY; reviewed by John C.

Daidola (3) 58

Clean Ships Clean Ports Clean Oceans: Controlling Garbage and Plastic Wastes at Sea, National Research Council. National Academy Press: Washington, DC; reviewed by John F. Bash (1) 73-74

Coastal Hazards: Perception, Susceptibility and Mitigation, Charles W. Finkle. The Coastal Education and Research Foundation: Charlottesville, VA; reviewed by J. J. Griffin (2) 69-70

Modern Marine Salvage, William I. Milwee, Jr. Cornell Maritime Press: Maryland; reviewed by Nicholas Marinaro (3) 58-59

Oceanography: Contemporary Readings in Ocean Sciences, R. Gordon Pirie. Oxford University Press: New York, NY; reviewed by J. J. Griffin (2) 69

Regional Oceanography: An Introduction, Matthia Tomczak. Pergamon: London; reviewed by J. J. Griffin

Sea Change—A Message of the Oceans, Sylvia A. Earle. G. P. Putnam's Sons (hard cover): New York, NY. Vallantine Fawcett (soft cover): New York, NY; reviewed by J. J. Griffin (4) 62-63